

WHAT IS CLAIMED IS:

1. An information processing apparatus comprising:  
display means for displaying at least one of image information,  
character information and graphical information;  
5 detection means for detecting at least one of rotation and linear  
movement of said display means; and  
display changing means for changing a display content displayed by  
said display means according to at least one of rotation and linear movement of said  
display means as detected by said detection means.
- 10 2. The information processing apparatus according to claim 1, wherein  
said detection means also photographs an image and detects said at least one of  
rotation and linear movement of said display means based on a change in the  
photographed image over time.
3. The information processing apparatus according to claim 2, wherein  
15 said detection means includes a means for converting light to electric signals.
4. The information processing apparatus according to claim 1, wherein  
said detection means detects the rotation of said display means based upon detection  
of an angular velocity of said display means.
5. The information processing apparatus according to claim 4, wherein said  
20 detection means detects the angular velocity with respect to two axes.
6. The information processing apparatus according to claim 4, wherein  
said detection means includes a piezoelectric gyroscope.
7. The information processing apparatus according to claim 1, wherein  
said detection means detects the rotation of said display means based on a change in  
25 bearing information detected for the display means over time.
8. The information processing apparatus according to claim 7, wherein  
said detection means includes an electronic compass.
9. The information processing apparatus according to claim 1 further  
comprising:  
30 photographic imaging means for generating a photographic image of a  
photographic object;  
storage means for storing the photographic image generated by the  
photographic imaging means; and

control means for controlling imaging of the photographic object by the photographic imaging means and storage of the photographic image of the photographic object in the storage means;

5 wherein said display changing means changes the display content displayed by the display means when the control means generates a photographic image of a photographic object that is not stored in the storage means.

10 10. The information processing apparatus according to claim 2, wherein the display changing means changes a magnification amount of the contents displayed on the display means when the detection means detects movement of the display means in a direction along an optical axis of the detection means.

11. The information processing apparatus according to claim 1, further comprising prevention means for preventing the display changing means from changing the contents displayed on the display means when either the rotation or linear movement of the display means is detected by the detection means.

15 12. The information processing apparatus according to claim 11, wherein the display changing means rotates the display contents displayed on the display means by a specified angle when rotation around an axis perpendicular to a screen of the display means is detected by the detection means.

20 13. The information processing apparatus according to claim 1, wherein the display changing means scrolls the contents displayed on the display means in a specific direction when rotation around a specified axis parallel to a screen of the display means is detected by the detection means.

14. The information processing apparatus according to claim 1, wherein said apparatus is an electronic camera.

25 15. An information processing apparatus comprising:

a display that displays at least one of image information, character information and graphical information;

a detector that detects at least one of rotation and linear movement of said display; and

30 a display controller coupled to the display and to the detector to change a display content displayed by said display according to at least one of said rotation and said linear movement of said display as detected by said detector.

16. The information processing apparatus according to claim 15, wherein said detector is a photoelectric converter that photographs an image and detects at least one of the rotation and the linear movement of said display based on a change in the image over time.

5 17. The information processing apparatus according to claim 16, wherein the photoelectric converter includes a charge-coupled-device.

18. The information processing apparatus according to claim 16, wherein said detector detects the rotation by detecting the angular velocity of the display.

10 19. The information processing apparatus according to claim 18, wherein said detector detects the angular velocity with respect to two axes.

20. The information processing apparatus according to claim 15, wherein said detector includes a piezoelectric gyroscope.

15 21. The information processing apparatus according to claim 15, wherein said detector detects the rotation of said display based on a change in detected bearing information over time.

22. The information processing apparatus according to claim 15, wherein said detector includes an electronic compass.

23. The information processing apparatus according to claim 15, further comprising:

20 a photoelectric converter that generates a photographic image of a photographic object;

a memory that stores said photographic image generated by the photoelectric converter; and wherein:

25 the display controller is coupled to the photoelectric converter and to the memory to control imaging of the photographic object by the photoelectric converter and storage of the photographic image in the memory, said controller changes the display content based on photographic images that are not stored in the memory.

30 24. The information processing apparatus according to claim 23, further comprising a prevention device coupled to the display controller to prevent the display controller from changing the contents displayed on the display when either said at least one of rotation and linear movement is detected by the detector.

25. The information processing apparatus according to claim 15, wherein the display controller rotates the display content by a specified angle when rotation around an axis perpendicular to a screen of the display is detected by the detector.

26. The information processing apparatus according to claim 15, wherein the display controller changes the contents of the display by scrolling the display.

27. The information processing apparatus according to claim 15, wherein the display controller changes the contents of the display by changing a magnification of an image displayed on the display.

28. The information processing apparatus according to claim 15, wherein said apparatus is an electronic camera.

29. An information processing method, comprising the steps of:  
displaying at least one of image information, character information and graphical information on a display;

detecting at least one of rotation and linear movement of an electronic device; and

changing the display content on the display according to the detected at least one of rotation and linear movement of said electronic device.

30. The method according to claim 29, wherein said detecting step includes photographing an image and detecting the at least one of rotation and linear movement based on a change in the photographed image over time.

31. The method according to claim 30, wherein the rotation is detected by detecting angular velocity.

32. The method according to claim 31, wherein the angular velocity is detected with respect to two axes.

33. The method according to claim 29, wherein the display content is changed by changing a magnification level of the contents displayed on the display.

34. The method according to claim 29, further comprising selectively preventing the display from changing the display contents upon receipt of a prohibit signal.

35. The method according to claim 29, wherein the display contents are changed by rotating the display contents displayed on the display by a specified angle when rotation around a specified axis is detected.

36. The method according to claim 29, wherein the display contents are changed by scrolling the contents displayed on the display in a specific direction.

37. The method according to claim 29, wherein the electronic device is the display.

5 38. The method according to claim 29, wherein the electronic device is a digital camera.

39. A recording medium that stores a computer-readable control program that is executable by a controller of an information processing apparatus to perform the steps of:

10 displaying at least one of image information, character information and graphical information on a display;

detecting at least one of rotation and linear movement of an electronic device; and

15 changing the display content according to the detected at least one of rotation and linear movement of said electronic device.

40. The recording medium according to claim 39, wherein said detecting step includes photographing an image and detecting the at least one of rotation and linear movement based on a change in the photographed image over time.

20 41. The recording medium according to claim 40, wherein the rotation is detected by detecting angular velocity.

42. The recording medium according to claim 41, wherein the angular velocity is detected with respect to two axes.

25 43. The recording medium according to claim 39, wherein the display content is changed by changing a magnification level of the contents displayed on the display.

44. The recording medium according to claim 39, further comprising selectively preventing the display from changing the display contents upon receipt of a prohibit signal.

30 45. The recording medium according to claim 39, wherein the display contents are changed by rotating the display contents displayed on the display by a specified angle when rotation around a specified axis is detected.

10060315-020102

46. The recording medium according to claim 39, wherein the display contents are changed by scrolling the contents displayed on the display in a specific direction.

5 47. The recording medium according to claim 39, wherein the electronic device is the display.

48. The recording medium according to claim 39, wherein the electronic device is a digital camera.

49. An information processing apparatus comprising:  
10 a display that displays at least one of image information, character information and graphical information;

a detector that detects at least one of rotation and linear movement of an electronic device; and

15 a display controller coupled to the display and to the detector to change a display content displayed by said display according to at least one of said rotation and said linear movement of said electronic device as detected by said detector.

50. The information processing apparatus of claim 49, wherein said electronic device is a digital camera.

20 51. The information processing apparatus of claim 49, wherein said electronic device is a device that stores said at least one of image information, character information and graphical information.

20100315-000102